

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/011373

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ F04B27/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ F04B27/12

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2004
Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 8-28447 A (Toyoda Automatic Loom Works, Ltd.), 30 January, 1996 (30.01.96), Full text; Figs. 1 to 6 (Family: none)	1-6
Y	JP 2003-3954 A (Sanden Corp.), 08 January, 2003 (08.01.03), Par. No. [0009]; Fig. 1 (Family: none)	1-6
Y	JP 2003-42065 A (Toyota Industries Corp.), 13 February, 2003 (13.02.03), Par. No. [0007]; Fig. 1 & US 6679077 B2 & US 2003019227 A1 & DE 102333894 A1	6

 Further documents are listed in the continuation of Box C. See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance

"B" earlier application or patent but published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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"&" document member of the same patent family

Date of the actual completion of the international search
15 October, 2004 (15.10.04)Date of mailing of the international search report
02 November, 2004 (02.11.04)Name and mailing address of the ISA/
Japanese Patent Office

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CD-ROM of the specification and drawings annexed to the request of Japanese Utility Model Application No. 17625/1993 (Laid-open No. 76659/1994) (Sanden Corp.), 28 October, 1994 (28.10.94), Par. Nos. [0014] to [0018]; Figs. 1 to 4 (Family: none)	1-5

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